



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

KANAO

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Serial No. 09/893,422

Group: 2879

Filed: June 29, 2001

Examiner: Leurig, S.

For: A SPARK PLUG FOR AN ENGINE FOR A COGENERATION SYSTEM

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October 20, 2003 (Monday)
(October 18 = Saturday)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

AMENDMENT/RESPONSE

Responsive to the final Office Action dated June 18, 2003, please enter the following amendments and consider the following remarks. A Request for Continued Examination (RCE) is being concurrently filed herewith.

OK
for
entry

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Ir and at least one of Rh, Pt, Ru, Pd, and W.

BRIEF DESCRIPTION OF THE DRAWINGS

The object and features of the present invention will become more readily apparent from the following detailed description taken
5 in conjunction with the accompanying drawings in which:

Fig. 1 shows a side elevation view, partly in cross section, of a side electrode type of spark plug according to the invention;

Fig. 2A shows an enlarge side elevational view in cross section of a spark discharging portion;

10 Fig. 2 B shows a section taken on line B-B in Fig. 2A;

Fig. 3A shows a plan view of another example of the first discharge member;

Fig. 3B is a sectional side elevational view taken on the line C-C in Fig. 3A;

15 Figs. 4A and 4B are cross-sectional plan views of examples of the first and second discharge members;

Fig. 5 is a graphical drawing showing the relation between the discharge width T and the gap G with the width D being varied;

Fig. 6 is a graphical drawing showing the relation between the
20 shortest distance L (mm) and a ratio (%) of undesirable spark to the weld portion; and

Figs. 7A, 7B, 8A to 8C show modifications of this embodiment.

The same or corresponding elements or parts are designated with like references throughout the drawings.

25 DETAILED DESCRIPTION OF THE INVENTION

The spark plug according to this embodiment is used for a gas